

Federal Communications Commission

(REFERENCE COPY - Not for submission)

FCC Form 399: Reimbursement Request

Facility	61961	Service: DTV		KVLY-TV	Channel: 36 (UHF)
ID: File	000002	8721	Sign:		
Number:					
FRN: 00	18223693	Date	10/08		
		Submitted:	/2020		

Applicant Name, Type, and Contact Information

Applicant Information

Applicant	Address	Phone	Email	Applicant Type
GRAY TELEVISION	4370	+1 (701)	robert.	Limited
LICENSEE, LLC	PEACHTREE	237-	folliard@gray.	Liability
Doing Business As: GRAY	RD NE	5211	tv	Company
TELEVISION LICENSEE, LLC	ATLANTA,			
	GA 30319			
	United States			

Reimbursement Contact Name and Information Reimbursement Contact Information

Applicant	Address	Phone	Email
[Confidential]			

Preparer	Preparer Contact Name and Information				
Contact Information	Applicant	Address	Phone	Email	
	Samuel Hariton Widelity	Samuel Hariton 4031 University Dr Suite 100 Fairfax, VA 22030 United States	+1 (339) 222-8107	sam.hariton@widelity.com	

Broadcaster Information and Transition Plan	Question	Response
	Will the station be sharing equipment with another broadcast television station or stations (e.g., a shared antenna, co-location on a tower, use of the same transmitter room, multiple transmitters feeding a combiner, etc.)? If yes, enter the facility ID's of the other stations and click 'prefill' to download those stations' licensing information.	Yes
	Briefly describe transition plan	Replacing the existing transmitter, transmission line, and antenna. Also purchasing an interim transmitter, transmission line, and antenna.

Transmitters	Section	Question	Response
	Transmitter Related Expenses	Do you have transmitter related expenses?	Yes

Primary	Existing Transmitter Information				
Transmitter	Section	Question	Response		
	Existing Transmitter Description	Type of change	Purchase New		
		Use	Primary (Main)		
		Description of Use	N/A		
		Ownership	Owned		
		Owner	N/A		
		Site	N/A		
		Is this transmitter currently shared with another station?	No		
		Is this transmitter currently in operating condition?	Yes		
	Existing Transmitter Manufacturer and Type	Manufacturer			
		Model	DTT10KSUG1		
		Year	2004		
		Туре	Solid State		
		Solid State Cooling	Air Cooled		
		Solid State Power Capacity	10 kW		

Existing Transmitter Information

Primary	New Transmitter Costs					
Transmitter	Section	Question	Response			
	New Transmitter	Use	Primary (Main)			
		Change Type	Purchase New			
		Is this a request for upgraded equipment?	Yes			
		Manufacturer				
		Model	THU9-36			
		Transmitter Type	Solid State			
		Solid State Cooling	Liquid Cooled			
		Solid State Power capacity	55 kW			
		Justification for New Transmitter	Current transmitter cannot make enough power to feed the Dielectric proposed channel 18 replacement antenna. Also, Larcan went bankrupt. The original company is out of business.			

Primary Transmitter	Other Transmitter Costs				
	Section	Question	Response		
	Electrical Service	Service Entrance (3 phases 800A 208V)	No		

	Switchgear (industrial 800 amp)	No
	Transformer (480V)	No
	Power	N/A
	Rigid Conduit and Wiring	No
	Size	N/A
	Length	N/A
	Other Electrical Service	Yes
	Description	The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
Improvement	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A

Primary	Other Transmitter Cost Not Listed			
Transmitter	Name	Description		
	Building Upgrade	Concrete Cutting Work		
	HVAC	HVAC Modification		
	Electrical	Electrical Installation Costs		
	Electrical	Electrical Code Verification for Transmitters		
	Pad for Heat Exchangers	Heat Exchanger Concrete Pad plus Ice shield		

Interim	New Transmitter Costs				
Transmitter	Section	Question	Response		
	New Transmitter	Use	Interim		
		Description of Use	N/A		
		Change Type	Purchase		
		Manufacturer			
		Model	THU9-EVO		
		Transmitter Type	Solid State		
		Solid State Cooling	Liquid Cooled		
		Solid State Power capacity	6.5 kW		
		Justification for New Transmitter	Interim transmitter needed to continue broadcasting during installation of new transmitter.		

Interim	Other Transmitter Costs		
Transmitter	Section	Question	Response
	Electrical Service	Service Entrance (3 phases 800A 208V)	No
		Switchgear (industrial 800 amp)	No
		Transformer (480V)	No
		Power	N/A
		Rigid Conduit and Wiring	No
		Size	N/A
		Length	N/A
		Other Electrical Service	Yes
			,

	Description	Interim Transmitter wiring and other Electrical Services
HVAC Service	Does the replacement transmitter require HVAC Service?	No
	Туре	N/A
	Size	N/A
	Other Size	N/A
Transmitter Building Addition/Modification or Leasehold Improvement	Does the Transmitter Building require an addition, modification, other leashold improvement?	No
	Size	N/A
Channel 14 Costs	Is an RF Consulting Engineer needed?	N/A
	Is a channel 14 Mask Filer needed?	N/A
	Is additional field engineering time needed?	N/A
	Number of Days	N/A
Inside RF System	Is an additional interior RF system required to support this interim transmitter?	No

Other Transmitter Cost Not Listed

Transmitter	Name	Description
	Inside RF System	UHF Inside RF System including switching

Antennas Section		Question	Response
Antenna Rela	ated Expenses	Do you have antenna related expenses?	Yes

Primary	Existing Antenna Inform	nation	
Antenna	Section	Question	Response
	Existing Antenna Description	Type of change	Purchase New
		Antenna Use	Primary (Main)
		Description of Use	N/A
		Ownership	Owned
		Owner	N/A
		Site	N/A
		Is the existing antenna shared with another station or stations?	No
		Is the existing antenna directional?	Yes
		Is antenna in operating condition?	Yes
		Is antenna located on or in close proximity to an antenna farm?	No
	Existing Antenna	Class	Full Power
	Manufacturer and Type	Mounting	Side Mount
		Antenna position in stack	Not in Stack
		Polarization	Horizontal
		Туре	Slotted Coaxial
		Number of Stations Supported	N/A
		Number of Panels	N/A
		Design power capacity in use	N/A
		Lower Limit	N/A
		Upper Limit	N/A
		Other Antenna Type	N/A
		ERP: (Effective Radiated Power)	356.0 kW

Manufacturer	
Model	TFU32DSB- J
Year	2004

Primary	New Antenna Costs		
Antenna	Section	Question	Response
	New Antenna Description	Use	Primary (Main)
		Description of Use	N/A
		Change Type	Purchase New
		Is this a request for upgraded equipment?	Yes
		Ownership	Owned
		Owner	N/A
		Is antenna shared?	No
		Is antenna directional?	Yes
		Will antenna be located on or in close proximity to an antenna farm?	No
	New Antenna	Class	Full Power
	Manufacturer and Types	Mounting	Top Mount
		Antenna position in stack	Not in Stack
		Polarization	Elliptical
		Туре	Slotted Coaxial
		Number of Stations Supported	N/A
		Number of Panels/Bays	N/A
		Lower Limit	N/A
		Upper Limit	N/A
		Design power capacity in use	N/A
		Other Antenna Type	N/A
		ERP: (Effective Radiated Power)	192.0 kW
		Manufacturer	

Model	TFU 19ET /VP-R 3C210
Year	2018
Justification for New Antenna	Existing antenna is single channel antenna tuned to channel 44 and canno be re- tuned.

Primary Other Antenna Costs

Antenna	Section	Question	Response
	Combiner for Shared Antenna	Do you need a Combiner for a Shared Antenna?	No
		Туре	
		Number of channels supported	N/A
		Frequencies of channels supported	N/A
		Frequency	N/A
		Do you need a combiner output splitter /switcher for dual feed lines?	N/A
	Elbow Complex	Do you require the separate purchase of the Elbow Complex?	Yes
		Broadband or Single Channel?	Single Channel
		Feed Line Size	4 1/16 inches inches
	Side Mount Brackets	Do you require the separate purchase of side mount brackets for a high power antenna?	No

Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Primary
Antenna Other Antenna Cost Not Listed Name Description Top Plate Adapter Top plate adapter to match tower top and antenna bolt pattern.

Interim	New Antenna Costs		
Antenna	Section	Question	Response
	New Antenna Description	Use	Interim
		Description of Use	N/A
		Change Type	Purchase New
		Ownership	Owned
		Owner	N/A
		Is antenna shared?	No
		Is antenna directional?	Yes
		Will antenna be located on or in close proximity to an antenna farm?	No
	New Antenna	Class	Full Power
	Manufacturer and Type	Mounting	Side Mount
		Antenna position in stack	Not in Stack
		Polarization	Horizontal
		Туре	Slotted Coaxial
		Number of Stations Supported	N/A
		Number of Panels/Bays	N/A
		Lower Limit	N/A
		Upper Limit	N/A
		Design power capacity in use	N/A
		Other Antenna Type	N/A
		ERP: (Effective Radiated Power)	103.0 kW
		Manufacturer	
		Model	TLP32J
		Year	2018
			I

Justification for New Antenna

Other Antenna Costs Interim

Antenna

Section	Question	Response
Elbow Complex	Do you require the separate purchase of the Elbow Complex?	No
	Broadband or Single Channel?	N/A
	Feed Line Size	N/A
Side Mount Brackets	Do you require the separate purchase of side mount brackets for an antenna?	No
Pattern Scatter Analysis	Do you require separate purchase of pattern scatter analysis for a side mount high or medium power antenna?	No
Sweep Test	Do you require the sweep testing of transmission line and antenna?	Yes

Other Antenna Cost Not Listed Interim

Antenna Information not provided.

Transmissior	n Seffien	Question	Response
	Transmission Line Related Expenses	Do you have transmission line related expenses?	Yes

ransmissio	Section	Question	Response
	Existing Transmission Line Description	Type of change	Purchase New
		Use	Primary (Main)
		Description of Use	N/A
		Ownership	Owned
		Owner	N/A
		Site	N/A
		Is the existing transmission line shared with another station or stations?	No
		Is Transmission Line in operating condition?	Yes
	Existing Transmission	Manufacturer	
	Line Manufacturer and Type	Туре	Rigid
		Diameter	6 1/8 inches
		Other Diameter	N/A
		Segment Length	20 inches
		Other Segment Length	N/A
		Number of parallel runs	1
		Length	1974 feet per run

Primary Existing Transmission Line

Primary	New Transmission Line			
Transmissio	n Section	Question	Response	
	New Transmission Line Costs	Use	Primary (Main)	
		Description of Use	N/A	
		Change Type	Purchase New	
		Is this a request for upgraded equipment?	Yes	
		Туре	Rigid	
		Diameter	6 1/8 inches	
		Other Diameter	N/A	
		Segment Length	20 inches	
		Other Segment Length	N/A	
		Number of parallel runs	1	
		Length	1974 feet per run	
		Justification for New Transmission Line	6" line is original Prodelin line is 50 years old. We will sweep line but expect to replace. Also replacing side-mount antenna with a top- mount.	

Description

Sweep Existing Transmission Line	Sweep existing transmission line to ascertain viability
Shipping	Transmission Line Shipping Costs

Interim	New Transmission Line		
Transmissio	on Line Section	Question	Response
	New Transmission Line Costs	Use	Interim
		Description of Use	N/A
		Change Type	Purchase New
		Туре	Flexible Air
		Diameter	3 inches
		Segment Length	N/A
		Other Segment Length	
		Number of parallel runs	1
		Length	1580 feet per run
		Justification for New Transmission Line	Interim transmission line required so that the station can broadcast while the main line is being replaced.

Interim Other Transmission Line Expenses Not Listed

Transmission home tion not provided.

Tower	Section	Question	Response
Equipment And Rigging Costs	Tower Equipment or Rigging Costs Changes	Do you have tower equipment or rigging costs changes?	Yes

marv	Existing	Tower
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Primary Tower	Existing Tower			
	Section	Question	Response	
	Existing Tower Description	Type of change	Modify Existing	
		Tower Use	Primary (Main)	
		Description of Use	N/A	
		Ownership	Owned	
		Is this tower consider Complex?	No	
		Is this tower currently shared with any other stations?	Yes	
		One or more FM, AM or TV radio broadcaster(s)	No	
		Others Types of Users	Yes	
		Is tower documented for structural analysis?	Yes	
		Is tower compliant with Rev G?	Yes	
	Existing Tower Structure Registration Coordinates (<u>NAD83</u> (North American Datum of 1983))	Do you have a tower registration number?	Yes	
		ASR Number	1046244	
		Latitude (NAD83)	47° 20' 32.0" N-	
		Longitude (NAD83)	097° 17' 21.0" W-	
		Overall Structure Height	2062.97 feet	
		Support Structure Height	1951.09 feet	
		Ground Elevation Above Mean Sea Level (AMSL)	975.05 feet	

Structure Type	TOWER - Free Standing or Guyed Structure
Tower Owner	Gray Television Group, Inc.
Date Constructed	08/13/1963

Other Types of Users

Users

K28MA-D, 185875

Primary Tower Section Costs

Section	Question	Response
Engineering Study	Please what type of engineering study is required, if any:	Study needed for documented tower
Tower Reinforcements	Please select whether tower reinforcements are needed:	Major Reinforcements needed

Primary Tower Rigging Costs

Tower

Section	Question	Response
Tower Rigging Costs	Complex Tower	N/A
Helicopter Services Required	Are helicopter services required?	No

Primary	Other Tower Expenses Not Listed		
Tower	Name	Description	

Tower Painting	Restripe tower paint to match lower height
	change.

Outside	Section	Question	Response
Professional	Services Costs Outside Project Management Services	Do you require outside project management services?	Yes
		Number of Hours	900
		Explanation	Strategic Planning
	Outside RF consulting Engineering Services	Perform engineering study for new channel assignment and antenna development	Yes
		Prepare engineering section of Form FCC Construction Permit Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes
		Prepare engineering section of Form FCC License to Cover Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes
		Prepare request for Special Temporary Authority	Yes
		Quantity	1
		Do you have Distributed Transmission System engineering services?	N/A
		Critical Facility	N/A
		Terrain-Shielded Facility	N/A
	Attorney and Other Outside Consulting	Prepare and file Form FCC Construction Permit Application	Yes
	Services	For Auxiliary Facility	No
		For Main Facility	Yes
		Prepare and file Form FCC License to Cover Application	Yes
		For Auxiliary Facility	No
		For Main Facility	Yes

	Prepare request for Special Temporary Authority	Yes
	Quantity	1
	NEPA Section 106 environmental review	No
	Environmental Assessment	No
	ASR Modification	Yes
	FAA Consultation (including preparation of FAA Form 7460)	Yes
	Negotiation of Lease and other Matter for Shared Locations	Yes
	Prepare or Review FCC Form 399 for Reimbursement	Yes
	Address transition timing and coordination issues w/ other stations and wireless providers	Yes
RF Field Engineering Services	Comprehensive coverage verification via field study	No
	RF exposure measurements	No
	Additional Field Engineering Service	No
	Number of Days	N/A
	Justification	N/A

Other Professional Services Expenses Not Listed Professional Services roopstsided.

Other	Section	Question	Response
Expenses	AM Pattern Disturbance	Is an Impact Study needed?	No
		Is Remediation needed?	No
	Facility Expenses	Name	N/A
		Other Distributed Transmission System Expenses Not listed	N/A
		Name	N/A
		Is Notification of a Medical Facility required as a result of DTV broadcasting?	Yes
	Permit and Filing Costs	Local Zoning	No
		Non-zoning permits	No
		BLM or NFS Coordination	No
		FCC Construction Permit Minor Change	No
		FCC License to Cover Application	Yes
		FCC Special Temporary Authority Application	Yes
	Other Miscellaneous Expenses	Does this relocation require paying Disposal Costs (for equipment and other waste, net of any salvage value)?	Yes
		Does this relocation require Equipment Delivery or Handling Charges not otherwise included in individual item costs?	Yes
		Does this relocation require Equipment Storage?	Yes
		Does this relocation require the Development and Airing of an Announcement regarding an upcoming channel change?	Yes
		Does this relocation require MVPD Notification of a Channel Change?	Yes

Other Expenses Not Listed

Other Expenses	Other Expenses Not Listed			
	Name	Description		
	Security	Security at the site for the storage of equipment		
	Other Expenses Not Listed - Site Remediation	Other Expenses Not Listed - Site Remediation		

Transmitters

Cost Information

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Co Justificat
Interim Transmitter THU9-EVO	\$296,951.81	\$342,440.21		\$296,014.32	
Inside RF System	\$21,263.58	\$21,263.58	N/A	\$0.00	N/A
Other Electrical Service: Interim Transmitter wiring and other Electrical Services	\$2,188.23	\$2,188.23	Please see Rickard Electric proposal 2973 (divided between interim and primary transmitters)	\$2,188.23	N/A
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	\$273,500.00	\$318,988.40	Increase to cover Rohde and Schwarz invoices 9500080421, 9500085140, 9500085141 and 9500075326, as well as electrical invoices moved to this category. Accompanying quotes are uploaded.	\$293,826.09	N/A
Primary Transmitter THU9-36	\$2,446,642.34	\$1,675,031.96		\$474,736.13	

Pad for Heat Exchangers	\$122,166.00	\$122,166.00	see Estimated Cost Justification KVLY-110- Pads for Heat Exchangers New 1st Primary Transmitter v0	\$122,166.00	N/A
Electrical	\$3,000.00	\$3,000.00	Electrical invoices included in the interim transmitter budget category.	\$3,000.00	N/A
HVAC	\$17,450.00	\$17,450.00	These costs are associated with changing the HVAC system over from an air cooled transmitter with heat recovery for winter to accommodate the new liquid cooled transmitter.	\$8,500.00	N/A
Building Upgrade	\$17,321.15	\$17,321.15	see Estimated Cost Justification KVLY-110- Building Upgrade v0	\$17,321.15	Krueger Concrete

Other Electrical Service: The new main transmitter will require reconfiguration of the electrical service on site. The electrical work cost has been estimated based on verbal guidance from local electrical contractors.	\$4,205.19	\$4,205.19	see Estimated Cost Justification KVLY-110- Other Electrical Service New 1st Primary Transmitter v0	\$2,710.43	N/A
UHF - Liquid Cooled Solid State Transmitter 52 - 61 kW	\$1,788,000.00	\$1,189,851.07	per R&S Quote 802- 049860.1	\$0.00	N/A
UHF - Liquid Cooled Solid State Transmitter 8.2 - 13 kW	\$494,500.00	\$321,038.55	***System Notice: Estimate adjusted and locked because line has been superseded. ***	\$321,038.55	x
Sub-total	\$2,743,594.15	\$2,017,472.17	N/A	\$770,750.45	N/A
Total for all systems	\$4,803,200.41	\$4,228,444.47	N/A	\$2,247,282.03	N/A

Components

Actual Information Description	File Name
Inside RF System	Information not provided.

Other Electrical Service: Interim Transmitter wiring and other Electrical Services	Component Description: Amount:	Other Electrical \$2,188.23
UHF - Liquid Cooled Solid State Transmitter 4.9 . 6.5 kW	Component Description:	Invoice moved to correct budget categories.
	Amount:	N/A
	Component Description:	Down payment request on interim transmitter
	Amount:	\$63,060.00
	Component Description: Amount:	New Interim Transmitter \$3,084.90
	Component Description:	KVLY-180-New
	Amount:	Interim Transmitter \$5,925.00
	Component Description:	New Interim Transmitter
	Amount:	\$5,021.25
	Component Description: Amount:	Milestone Payment #3 \$63,060.00
	Component Description: Amount:	Transmitter components \$10,728.39
		,.

Component Description: Amount:	Milestone Payment #2 \$126,120.00
Component Description:	New 1st Primary Transmitter
Amount:	\$16,826.55
	Amount: Component Description:

Pad for Heat Exchangers		
	Component Description:	Costs to fill 8' by 17'
		cistern; Blanchard
		Transmitter Pad and Ice Canopy
	Amount:	\$7,088.00
	Amount.	\$1,000.00
	Component Description:	Ice canopy material
	Amount:	\$39,484.00
	Component Description:	Ice canopy
		fabrication and
	•	onsite assembly
	Amount:	\$33,700.00
	Component Description:	Labor to add 40
		yards of fill, labor
		and grading estimate
	Amount:	\$2,500.00
	Component Description:	Fencing to enclose
		concrete pad
	Amount:	\$5,072.00
	Component Description:	Heat Exchangers
		New 1st Primary
	Amount:	Transmitter \$33,722.00
		ψου,, <i>Σ</i> Σ.Ου
	Component Description:	Material handling;
		skid steer rental
	Amount:	\$600.00

Electrical	Component Description:	Third party engineering review
		of non-UL listed
	A	equipment
	Amount:	\$3,000.00
HVAC		
	Component Description:	HVAC
		MODIFICATIONS,
		BLANCHRD ND
		TOWER
	Amount:	\$4,250.00
	Component Description:	Blanchard Tower
		HVAC Modifications
	Amount:	\$4,250.00
Building Upgrade		
	Component Description:	Labor - Demo
		Masonry and Install
		Rebar
	Amount:	\$5,486.15
	Component Description:	Demo Saw Cutting
		15"w x 54"w x 4"
		hole in floor
	Amount:	\$2,885.00
	Component Description:	Construct room at
	2000 percent	tower site in
		Blanchard,
		Blanonara,

Other Electrical Service: The new main transmitter will require reconfiguration of the electrical service on site. The electrical work	Component Description: Amount:	Labor \$2,710.43
cost has been estimated based on verbal guidance from local electrical contractors.	Component Description: Amount:	Equipment Rental Caterpillar \$1,281.00
UHF - Liquid Cooled Solid State Transmitter 52 - 61		
kW	Component Description:	DP 20% Final
	Amount:	Payment Milestone 3 \$94,013.75
	Component Description:	"Rohde & Schwarz
		QT: 802-030267.8
		Rohde & Schwarz
		QT: 802-049860.1"
	Amount:	\$18,802.75

UHF - Liquid Cooled Solid		
State Transmitter 8.2 - 13	Component Description:	THU9EVO-8 Main
kW		Transmitter 25%
		downpayment
	Amount:	\$94,013.75
	Component Description:	electrical work
		installing main and
		interim transmitters
	Amount:	\$26,318.45
	Component Description:	DP 50% down
		payment Milestone
		at delivery
	Amount:	\$188,027.50
	Component Description:	Electric work for new
	Amount:	transmitter \$4,825.10
	Amount.	ψ 4 ,023.10
	Component Description:	Invoice moved to
	•••••••••••••••••••••	correct budget
		category
	Amount:	N/A
	Component Description:	Electrical work
		installing new KVLY
		Channel 36 main
		transmitter
	Amount:	\$7,853.75
		Oben ge ender #4
	Component Description:	Change order #1 additional
		disconnects
	Amount:	\$3,614.25
		JU.UI4.ZJ

Antennas

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Antenna TLP32J	\$96,130.00	\$62,064.62		\$61,304.87	
Sweep test of existing antenna	\$6,730.00	\$6,400.00	N/A	\$6,400.00	N/A
UHF - Lower Power Side Mount, One station antenna - medium power (50- 200 kW), horizontally polarized	\$89,400.00	\$55,664.62	N/A	\$54,904.87	N/A
Primary Antenna TFU 19ETT /VP-R 3C210	\$321,441.60	\$119,920.79		\$112,058.29	
Top Plate Adapter	\$15,641.60	\$15,641.60	see Estimated Cost Justification KVLY-210- Top Plate Adapter New Primary Antenna v0	\$15,641.60	N/A

Total for all systems	\$4,803,200.41	\$4,228,444.47	N/A	\$2,247,282.03	N/A
Sub-total	\$417,571.60	\$181,985.41	N/A	\$173,363.16	N/A
Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized			Estimated Cost Justification KVLY-210- New Primary Antenna v0		
Sweep test of existing antenna UHF - High	\$6,730.00 \$289,500.00	\$5,120.00	see Estimated Cost Justification KVLY-210- Sweep Test New Primary Antenna v0	\$5,120.00 \$83,399.09	N/A N/A
complex, single channel, at antenna input, per 4 1/16. feedline (if needed)			Estimated Cost Justification KVLY-210- Elbow Complex New Primary Antenna v0		

Actual Information	
Description	File Name

,,,,,,	Amount:	MOUNT \$12,680.00
UHF - Lower Power Side Mount, One station antenna - medium power (50-200 kW), horizontally polarized	Component Description:	UHF LOW POWER SIDE
	Component Description: Amount:	Sweep Test \$1,920.00
	Amount:	Antenna \$1,225.96
	Component Description:	KVLY-280-Sweep Test New Interim
	Amount:	Test New Interim Antenna \$1,627.02
	Component Description:	KVLY-280-Sweep
	Component Description: Amount:	Sweep Test, Interim Antenna \$1,627.02

Top Plate Adapter		
	Component Description:	New Primary Antenna Top Plate Adapter
	Amount:	\$5,865.60
	Component Description:	New Primary Antenna Top Plate Adapter
	Amount:	\$4,888.00
	Component Description:	New Primary Antenna Top Plate
	Amount:	\$4,888.00
	Component Description:	KVLY-210-Top Plate Adapter New Primary Antenna
	Amount:	\$3,910.40

Elbow complex, single channel, at antenna input,		
per 4 1/16. feedline (if needed)	Component Description:	KVLY-210-Elbov Complex New
needed)		Primary Antenna
	Amount:	\$1,974.40
	Component Description:	New Primary
		Antenna Elbow
		Complex
	Amount:	\$2,468.00
	Component Description:	New Primary
		Antenna Elbow
		Complex
	Amount:	\$2,468.00
	Component Description:	New Primary
		Antenna Elbow
		Complex
	Amount:	\$2,961.60

Sweep test of existing		
antenna	Component Description:	Sweep Test New
		Primary
		Transmission Line
	Amount:	\$1,600.00
	Component Description:	Sweep Test New
		Primary Antenna
	Amount:	\$1,920.00
	Component Description:	KVLY-210-Sweep
		Test New Primary
		Antenna
	Amount:	\$1,280.00
	Component Description:	Sweep Test New
	· ·	Antenna
	Amount:	
	Amount:	\$1,600.00

UHF - High Power Top Mount (200-1000 kW), One station antenna , elliptically or circularly polarized	Component Description: Amount:	Credit Memo (\$76,242.29)
	Component Description: Amount:	KVLY-210-New Primary Antenna- \$7,862.50
	Component Description: Amount:	Primary Antenna \$49,884.37
	Component Description:	New Primary Antenna - UHF High Power Top
	Amount:	Mount \$59,872.65
	Component Description:	UHF - HIGH POWER TOP
	Amount:	MOUNT \$39,907.50
	Component Description:	New Primary Antenna
	Amount:	\$49,884.36

Transmission Line

Cost Information

Where no predetermined cost estimate is available, any estimate provided will also become the predetermined cost (displayed in italics).

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Interim Transmission Line	\$93,220.00	\$79,459.42		\$67,829.46	
Flexible Air Transmission Line - dielectric, 3"	\$93,220.00	\$79,459.42	N/A	\$67,829.46	N/A
Primary Transmission Line	\$420,272.34	\$271,452.65		\$270,967.65	
Sweep Existing Transmission Line	\$5,000.00	\$5,000.00	See invoice	\$4,875.00	N/A
Shipping	\$16,524.34	\$16,524.34	Please see COMB KVLY- TV DTVPros 161-5 rev. 3.24.2020	\$16,524.34	N/A
Rigid Transmission Line - copper, 6 1/8"	\$398,748.00	\$249,928.31	see Estimated Cost Justification KVLY-310- New Primary Transmission Line v0	\$249,568.31	N/A
Sub-total	\$513,492.34	\$350,912.07	N/A	\$338,797.11	N/A
Total for all systems	\$4,803,200.41	\$4,228,444.47	N/A	\$2,247,282.03	N/A

Actual Information Description	File Name	
Flexible Air Transmission Line - dielectric, 3"	Component Description: Amount:	KVLY-380-New Interim Transmission Line \$15,777.89
	Component Description:	KVLY-380-New Interim Transmission Line
	Amount: Component Description:	\$18,032.64 Interim Transmission Line
	Amount: Component Description:	\$15,777.89 Interim Transmission Line
Sweep Existing Transmission Line	Amount: Component Description:	\$18,241.04 KVLY antenna
	Amount:	/transmission line system sweep, report and expenses \$4,875.00
Shipping	Component Description: Amount:	Shipping \$16,524.34

Rigid Transmission Line - copper, 6 1/8"		
	Component Description:	Dual Universal Switch Controller
	Amount:	3U \$6,398.30
	Component Description:	New Primary
		Transmission Line
	Amount:	\$74,394.38
	Component Description:	New Primary
	Component Description.	Transmission Line
	Amount:	\$74,394.33
	Component Description:	New Primary
	Amount:	Transmission Line \$89,273.30
		····
	Component Description:	Dual Universal
		Switch Controller
	Amount:	3U \$5,108.00
		<i>40,0000</i>
	Component Description:	KVLY-310-New
		Primary
	Amount:	Transmission Line
	Amount:	\$59,515.50
	Component Description:	Invoice moved to
		correct budget
		category per NMI
	Amounti	message. N/A
	Amount:	IN/A

Tower Equipment and Rigging Costs

Cost Information

	Predetermined	Estimated	Estimated Cost		Actual Cost
Description	Cost Estimate	Cost	Justification	Actual Cost	Justificatior
Primary Tower TOWER	\$864,512.20	\$1,368,277.20		\$726,615.00	
Major tower reinforcement /modifications	\$421,000.00	\$701,625.00	see Estimated Cost Justification KVLY-410- Major reinforcements existing tower v0	\$551,455.00	N/A
Structural engineering tower load study for well documented tower	\$12,600.00	\$6,240.00	see Justifying Quote KVLY Tower Consultants Inc Proposal TCI-17-210	\$6,240.00	N/A
Tower Painting	\$220,412.20	\$220,412.20	Costs estimates for repainting the tower and re- positioning lighting has been updated since the original contractor is no longer available to do the job.	\$51,721.00	N/A
Tall Tower (greater than 500')	\$210,500.00	\$440,000.00	See Quote TCI-17-043	\$117,199.00	N/A
Sub-total	\$864,512.20	\$1,368,277.20	N/A	\$726,615.00	N/A
Total for all systems	\$4,803,200.41	\$4,228,444.47	N/A	\$2,247,282.03	N/A

Actual Information Description	File Name	
Major tower reinforcement /modifications	Component Description: Amount:	CO # 3 Remobilization (Nov 6, 2018) \$32,000.00
	Component Description: Amount:	Additional Mobilization \$32,000.00
	Component Description:	"Completion: 1 Section 1 and 2 Repack Modification
	Amount:	Services" \$50,524.00
	Component Description:	Mobilization - Section 1 and 2 Repack Modification Services
	Amount:	\$39,040.00
	Component Description: Amount:	CO #2 - Insurance Addition \$45,625.00
	Component Description:	Mobilization - Section 1 and 2 Repack Modification
	Amount:	Services \$75,786.00

	Component Description: Amount:	Repack modification services - Section 1 & 2. \$126,310.00
	Component Description:	Repack Modification Services \$126,310.00
	Component Description:	Antenna and TX Line Services - Sections 3,4 & 6 -
	Amount:	tower modifications \$150,170.00
Structural engineering tower load study for well documented tower	Component Description: Amount:	Additional Services \$6,240.00
	Component Description: Amount:	Perform Tower Analysis \$6,210.00

Tower Painting		
	Component Description:	Payment for
		Materials / Labor
	Amount:	\$12,190.00
	Component Description:	Please deny this entry
	Amount:	N/A
	Component Description:	Down payment, Materials-New LED A-6 Tower Lighting System and labor
	Amount:	\$51,721.00
	Component Description:	KVLY-TV invoice for repack 2019
	Amount:	\$12,190.00
	Amount.	ψ12,130.00

Tall Tower (greater than 500')

Component Description: Amount:	KVLY-410-Tower Rigging existing tower \$93,131.5 \$41,410.50
Component Description: Amount:	Repack Modification Services - Section 3 - Mobilization \$60,068.00
Component Description: Amount:	Additional Services \$18,750.00
Component Description: Amount:	KVLY-410-Tower Rigging existing tower \$10,810.00
Component Description: Amount:	install Dielectric Side Mount Antenna \$90,102.00
Component Description: Amount:	Credit Memo for Painting existing tower and Tower rigging existing tower (\$93,131.50)
Component Description:	KVLY-410-Tower Rigging existing tower
Amount:	\$10,810.00

Outside Professional Services

Cost Information

Description Outside Professional Services	Predetermined Cost Estimate \$181,330.00	Estimated Cost \$236,415.00	Estimated Cost Justification	Actual Cost \$175,846.35	Actual Cost Justificatior
FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	\$2,105.00	\$2,000.00	N/A	\$973.00	N/A
ASR modification (prepare FCC Form 854)	\$2,105.00	\$2,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File request for Special Temporary Authorization	\$3,680.00	\$3,500.00	N/A	\$2,012.50	N/A
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	\$3,155.00	\$3,000.00	N/A	N/A	N/A

Perform engineering study for new channel assignment and antenna development	\$7,360.00	\$8,500.00	Additional engineering work required to conduct channel study to identify alternate channel in lieu of repack Ch. 18.	\$8,500.00	N//
Address transition timing and coordination issues w/ other stations and wireless	\$2,630.00	\$2,500.00	N/A	N/A	N/A
Prepare and or review reimbursement form	\$2,630.00	\$2,500.00	N/A	N/A	N//
Project management of the transition	\$142,200.00	\$198,165.00	Please see Estimated Cost Justification KVLY-510- Project Management v1	\$163,592.85	N/A
Attorney Fees - Negotiation of lease and other matters for shared locations	\$4,210.00	\$4,000.00	N/A	N/A	N/A
Attorney Fees - Prepare and File FCC Form 2100 (main), License to Cover Application	\$2,365.00	\$2,250.00	N/A	N/A	N/A

Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	\$5,260.00	\$5,000.00	N/A	\$518.00	N/A
Prepare request for Special Temporary Authorization	\$2,050.00	\$1,500.00	N/A	N/A	N/A
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	\$1,580.00	\$1,500.00	N/A	\$250.00	N/A
Sub-total	\$181,330.00	\$236,415.00	N/A	\$175,846.35	N/A
Total for all systems	\$4,803,200.41	\$4,228,444.47	N/A	\$2,247,282.03	N/A

Actual Information	
Description	File Name

FAA consultant, including cost of preparing FAA Form 7460 (Notice of Proposed Construction), if needed for height increase	Component Description: Amount:	KVLY-590-FAA Consultant \$550.00
	Component Description:	Regarding installation of repack CH-36 main antenna
	Amount:	\$300.00
	Component Description: Amount:	Legal services \$123.00
ASR modification (prepare FCC Form 854)	Information not provided.	
Attorney Fees - Prepare and File request for Special Temporary Authorization	Component Description: Amount:	Legal services \$2,012.50
Prepare engineering section of FCC Form 2100 (main), Construction Permit Application	Information not provided.	

Address transition timing and coordination issues w/	Information not provided.	
	Component Description: Amount:	Perform engineering study for new channel assignment \$3,050.00
	Amount:	Assignment \$675.00
	Component Description:	Engineering Study for New Channel
	Amount:	for new channel assignment \$700.00
	Component Description:	Perform engineering study
	Amount:	alternate channels in lieu of repack Ch-18. \$3,137.50
	Component Description:	Conduct channel study to identify
	Amount:	for new channel assignment \$625.00
	Component Description:	Perform engineering study
	Amount:	as intereim \$312.50
Perform engineering study for new channel assignment and antenna development	Component Description:	review tech specs of antenna for use

Prepare and or review reimbursement form	Information not provided.	
Project management of the transition	Component Description: Amount:	Project Management \$2,606.30
	Component Description:	Project
	Amount:	Management \$11,788.40
	Component Description:	Project management
	Amount:	\$2,434.40
	Component Description: Amount:	Project Management \$2,472.05
	Component Description:	
	Amount:	Project Management \$3,935.60
	Component Description:	Project Management
	Amount:	\$2,567.30
	Component Description:	Project Management
	Amount:	\$3,465.60
	Component Description:	Project Management \$6,073.15
	Anount.	ψ0,070.10

Component Description: Amount:	Project Management \$5,984.50
Component Description: Amount:	Project Management \$2,863.15
Component Description: Amount:	Project Management \$1,796.50
Component Description: Amount:	Project Management \$8,554.80
Component Description: Amount:	Project Management \$3,310.55
Component Description: Amount:	Project management \$3,515.35
Component Description: Amount:	Transition Related Project Management Costs \$3,300.00
Component Description: Amount:	Project Management \$4,543.80
Component Description: Amount:	Project Management \$2,933.65

Component Description: Amount:	KVLY-510-Project Management \$2,700.00
Component Description: Amount:	Cost Reconciliation \$2,034.20
Component Description: Amount:	Project Management \$1,936.95
Component Description: Amount:	Project Management \$4,089.80
Component Description: Amount:	Project Management \$1,328.55
Component Description: Amount:	Cost Reconciliation \$7,045.20
Component Description: Amount:	Project Management \$3,660.85
Component Description: Amount:	Project Management \$755.80
Component Description: Amount:	Project Management \$3,065.40

Component Description: Amount:	Project Management \$2,673.10
Component Description: Amount:	Project Management \$3,228.50
Component Description: Amount:	Project Management \$3,079.40
Component Description: Amount:	Project Management \$8,864.65
Component Description: Amount:	Project Management \$3,084.70
Component Description: Amount:	Project management \$2,444.35
Component Description: Amount:	Project Management \$2,480.15
Component Description: Amount:	Project Mgt \$28.20
Component Description: Amount:	Project Management \$4,483.15

Component Description: Amount:	Project Management \$5,252.50
Component Description: Amount:	Project Management \$2,268.75
Component Description: Amount:	Project Management \$802.25
Component Description: Amount:	Project Management \$7,307.00
Component Description: Amount:	Project Management \$6,796.40
Component Description: Amount:	Project Management \$2,007.60
Component Description: Amount:	Project Management \$3,705.15
Component Description: Amount:	Project Management \$2,301.45
Component Description: Amount:	Project Management \$6,723.70

Attorney Fees - Negotiation of lease and other matters for shared locations	Information not provided.	
Attorney Fees -Prepare and File FCC Form 2100 (main), License to Cover Application	Information not provided.	
Attorney Fees - Prepare and File FCC Form 2100 (main), Construction Permit Application	Component Description: Amount:	Legal services \$518.00
Prepare request for Special Temporary Authorization	Information not provided.	
Prepare engineering section of FCC Form 2100 (main), License to Cover Application	Component Description:	Regarding buildou of repack Ch-36 main facility, develop final operating constants, preparation of engineering portions of FCC application for license to cover.
	Amount:	\$250.00

Other Expenses

Cost Information

Description	Predetermined Cost Estimate	Estimated Cost	Estimated Cost Justification	Actual Cost	Actual Cost Justification
Other Expenses	\$82,700.12	\$73,382.62		\$61,909.96	
MVPD Notification of Channel Change	\$1,000.00	\$1,000.00	N/A	N/A	N/A
Develop and air announcement of upcoming channel change	\$7,500.00	\$7,500.00	N/A	N/A	N/A
Equipment Storage	\$13,140.00	\$13,140.00	per Estimated Cost Justification KVLY-610- Equipment Storage v0	\$13,140.00	N/A
Equipment Delivery and Handling Charges	\$10,704.00	\$10,704.00	N/A	\$10,493.84	N/A

Disposal Costs (for equipment and other waste, net of any salvage value)	\$18,000.00	\$18,000.00	See attached Midwest Steeplejacks "KVLY Blanchard Disposal Quote" dated 8-17- 17. Updated quote from a year ago includes winter rate. at \$18,000	\$18,000.00	N/A
FCC Filing Fees - Special Temporary Authorization request	\$195.00	\$190.00	N/A	N/A	N/A
FCC Filing Fees - Form 2100 license to cover application	\$335.00	\$325.00	N/A	N/A	N/A
DTV Medical Facility Notification	\$11,550.00	\$2,247.50	N/A	N/A	N/A
Other Expenses Not Listed - Site Remediation	\$4,866.18	\$4,866.18	see Estimated Cost Justification KVLY-610- Other Expenses - Other Expenses Not Listed - Site Remediation	\$4,866.18	N/A

Security	\$15,409.94	\$15,409.94	see Estimated Cost Justification KVLY-610- Site Security v.1	\$15,409.94	N/A
Sub-total	\$82,700.12	\$73,382.62	N/A	\$61,909.96	N/A
Total for all systems	\$4,803,200.41	\$4,228,444.47	N/A	\$2,247,282.03	N/A

Actual Information Description	File Name	
MVPD Notification of Channel Change	Information not provided.	
Develop and air announcement of upcoming channel change	Information not provided.	
Equipment Storage		
	Component Description: Amount:	STORAGE - 2 48' VANS \$13,140.00

Equipment Delivery and		
Handling Charges	Component Description:	Material Handling on 07/10/18 Uploaded and moved transformers. Moved heat exchangers from
	Amount:	building to pad. \$420.00
	Component Description: Amount:	Equipment Delivery \$4,815.73
	Component Description: Amount:	Site work \$2,734.06
	Component Description: Amount:	Site Work on 8/28 /2018 \$900.00
	Component Description: Amount:	Unloading of 3" transmission line reel and forklift \$1,624.05
Disposal Costs (for equipment and other waste, net of any salvage value)	Component Description:	Labor to remove from the site after
	Amount:	coming off of tower \$18,000.00
FCC Filing Fees - Special Temporary Authorization request	Information not provided.	
FCC Filing Fees - Form 2100 license to cover application	Information not provided.	
DTV Medical Facility Notification	Information not provided.	

Other Expenses Not Listed - Site Remediation	Component Description: Amount:	Labor to fix lawn \$3,221.00
	Component Description:	Crop /damages caused by tower work
	Amount:	\$1,645.18

Security

Component Description: Amount:	Security for KVLY Transmitter site \$2,277.60
Component Description: Amount:	Security for KVLY Transmitter site \$854.10
Component Description: Amount:	Security for KVLY Transmitter site \$2,277.60
Component Description: Amount:	Security for KVLY Transmitter site \$2,277.60
Component Description: Amount:	Security for KVLY Transmitter site \$2,529.44
Component Description: Amount:	Security for KVLY Transmitter site \$2,233.80
Component Description: Amount:	Security for KVLY Transmitter site \$919.80
Component Description: Amount:	Security for KVLY Transmitter site \$2,040.00

Cost Information	Grand Total			
		Predetermined Cost Estimate	Estimated Cost	Actual Cost
	Total for all systems	\$4,803,200.41	\$4,228,444.47	\$2,247,282.03

Reimbursem	entestiatus	Response
	The facility has ceased operating on its pre- auction channel.	No
	Construction of final facilities or all necessary modifications are complete.	No
	All receipts for reimbursement have been submitted no further costs are expected to be incurred. Note this will lock the Form 399 from further editing and begin close-out procedures with the Fund Administrator.	No

Certification	Section	Question	Response
	Submission of Estimated Expenses Statements	WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT.	
		 The Authorized Person signing below certifies that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. The above-named 	
		entity acknowledges that all certifications and attached documentation are considered material representations.	
		3. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.	

- 4. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster Relocation Fund are necessary to change channels (broadcasters) or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 6. The above-named entity certifies that it will maintain and provide to the Commission detailed records, including receipts, of all costs eligible for reimbursement actually incurred.
- 7. The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.

8. The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a pre-requisite for obtaining the payments herein requested.	
 I declare, under penalty of perjury, that I am an authorized representative of the above- named applicant for the Authorization(s) specified above.	Robert Folliard , III Assistant Secretary 10/08/2020

Certification	Section	Question	Response
	Submission of Actual Cost Documentation Statements	WILLFUL FALSE, FRAUDULENT, OR FICTITIOUS STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND /OR IMPRISIONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a) (1), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503), AND ANY FALSE AND/OR FRAUDULENT STATEMENTS COULD SUBJECT THIS ENTITY TO LIABILITY UNDER THE FALSE CLAIMS ACT (U.S. CODE, TITLE 31, SECTIONS 3729-3733).	
		 The Authorized Person signing below certifies and represents that he /she is authorized to submit this TV Broadcaster Relocation Fund Reimbursement Form on behalf of the above-named entity. 	
		2. The above-named entity certifies that the statements in this form and attached documentation are true, complete, and correct.	
		3. The above-named entity acknowledges that all certifications and attached documentation are considered material representations.	

- 4. The above-named entity acknowledges the submission of the information herein creates no obligation on the part of the government to pay any amount.
- 5. The above-named entity certifies that the equipment and services paid for with money from the TV Broadcaster **Relocation Fund are** necessary to change channels (full power and Class A stations) and/or otherwise modify a television station's facility as a result of the spectrum repack (LPTV/TV Translator stations); or to minimize service disruption resulting from a repacked television station (FM stations); or to continue to carry the signal of a broadcaster that changes channels (MVPD).
- The above-named entity certifies that all payments from the TV Broadcaster Relocation Fund (Fund) received by the entity listed on this form will be used only for expenses that are eligible for reimbursement from the Fund.
- 7. The above-named entity certifies that the cost information /documents submitted reflect costs actually incurred.

8.	The above-named entity acknowledges that overpayments or payments in error must be promptly refunded to the Commission.	
9.	The above-named entity certifies that it is in full compliance with all statutes, rules, regulations and governmental requirements for which compliance is a prerequisite for obtaining the payments herein requested.	
an aut nameo	are, under penalty of perjury, that I am horized representative of the above- d applicant for the Authorization(s) red above.	Robert Folliard , III Assistant Secretary 10/08/2020

Attachments

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